

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
**YELAHANKA ZONE**

**Name of work:** Improvements to Road and Drains at Chokkanahalli Layout in ward No 05 Bvatarayanapura Sub Division

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Estimate Cost Rs. |                    |        |      |      |                | 3000000.00 |           |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|--------|------|------|----------------|------------|-----------|
| Sl No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit              | No                 | L      | B    | D    | Qty            | Rate       | Amount    |
| 1     | KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, P. No. 5/ Item No. 2.1/ PWD SR 2014-15 | cum               |                    |        |      |      |                |            |           |
|       | <b>Desilting of Drain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                    |        |      |      |                |            |           |
|       | Chokkanahalli Layout main Raod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 2                  | 500.00 | 0.40 | 0.25 | 100.00         |            |           |
|       | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 2                  | 78.00  | 0.40 | 0.25 | 15.60          |            |           |
|       | <b>Berm Cutting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                    |        |      |      |                |            |           |
|       | Chokkanahalli Layout main Raod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 2                  | 500.00 | 1.00 | 0.15 | 150.00         |            |           |
|       | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 2                  | 78.00  | 0.40 | 0.15 | 9.36           |            |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                    |        |      |      | <b>274.96</b>  | 146.88     | 40386.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 136.00            |                    |        |      |      |                |            |           |
|       | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10.88             |                    |        |      |      |                |            |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>146.88</b>     |                    |        |      |      |                |            |           |
| 2     | Removing B.S Slab of Drain and stacking Page No.25/ Item No. 5.32/ PWD SR 2014-15                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm               |                    |        |      |      |                |            |           |
|       | Chokkanahalli Layout main Raod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 2                  | 500.00 | 1.65 |      | 1650.00        |            |           |
|       | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 2                  | 78.00  | 1.65 |      | 257.40         |            |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                    |        |      |      | <b>1907.40</b> |            |           |
|       | <b>Deduct 20% Missing Slabs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                    |        |      |      | 381.48         |            |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                    |        |      |      | <b>1525.92</b> | 58.32      | 88992.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 54.00             |                    |        |      |      |                |            |           |
|       | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.32              |                    |        |      |      |                |            |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>58.32</b>      |                    |        |      |      |                |            |           |
| 3     | Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2014-15                                                                                                                                                                                                                                                                                                                                                                                                                        | Sqm               |                    |        |      |      |                |            |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | Qty Vide Item No.3 |        |      |      | 1525.92        |            |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                    |        |      |      | <b>1525.92</b> | 75.60      | 115360.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 70.00             |                    |        |      |      |                |            |           |
|       | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.60              |                    |        |      |      |                |            |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>75.60</b>      |                    |        |      |      |                |            |           |
| 4     | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No.25/ Item No. 5.31.1/ PWD SR 2014-15                                                                                                                                                                                                                                                                                                                           | Sqm               |                    |        |      |      |                |            |           |
|       | <b>For Missing slabs (20%)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Missing Slabs      |        |      |      | 381.48         |            |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                    |        |      |      | <b>381.48</b>  | 639.36     | 243903.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 592.00            |                    |        |      |      |                |            |           |
|       | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47.36             |                    |        |      |      |                |            |           |

|   | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit           | No | L     | B    | D    | Qty           | Rate    | Amount    |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|-------|------|------|---------------|---------|-----------|
|   | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>639.36</b>  |    |       |      |      |               |         |           |
| 5 | KSRB-4-1.3 : Providing and laying in position <b>plain cement concrete of mix M 1:4:8</b> with OPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2014-15                           | Cum            |    |       |      |      |               |         |           |
|   | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | 1  | 90.00 | 4.50 | 0.15 | 60.75         |         |           |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |    |       |      |      | <b>60.75</b>  | 4847.04 | 294458.00 |
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4488.00        |    |       |      |      |               |         |           |
|   | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 359.04         |    |       |      |      |               |         |           |
|   | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>4847.04</b> |    |       |      |      |               |         |           |
| 6 | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2014-15 | Cum            |    |       |      |      |               |         |           |
|   | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | 1  | 90.00 | 4.50 | 0.10 | 40.50         |         |           |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |    |       |      |      | <b>40.50</b>  | 5847.12 | 236808.00 |
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5414.00        |    |       |      |      |               |         |           |
|   | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 433.12         |    |       |      |      |               |         |           |
|   | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>5847.12</b> |    |       |      |      |               |         |           |
| 7 | KSRRB M2600-3: (ii) Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, No. 233/ Item No. 31.3 PWD SR 2014-15                                                                                                                                                                                                                                                                                     | M              |    |       |      |      |               |         |           |
|   | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | 18 | 4.50  |      |      | 81.00         |         |           |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |    |       |      |      | <b>81.00</b>  | 138.24  | 11197.00  |
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 128.00         |    |       |      |      |               |         |           |
|   | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10.24          |    |       |      |      |               |         |           |
|   | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>138.24</b>  |    |       |      |      |               |         |           |
| 8 | Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiing disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2014-15                                                                                                                                                                                                                                                           | Sqm            |    |       |      |      |               |         |           |
|   | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | 1  | 90.00 | 4.50 |      | 405.00        |         |           |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |    |       |      |      | <b>405.00</b> | 97.20   | 39366.00  |

|    | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit    | No | L      | B    | D     | Qty     | Rate    | Amount     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|--------|------|-------|---------|---------|------------|
|    | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 90.00   |    |        |      |       |         |         |            |
|    | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.20    |    |        |      |       |         |         |            |
|    | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.20   |    |        |      |       |         |         |            |
| 9  | KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to <b>wet mix macadam</b> specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406,P No. 154/ Item No. 20.18/ PWD SR 2014-15                                                                                                                                                             | Cum     |    |        |      |       |         |         |            |
|    | Chokkanahalli Layout main Raod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | 1  | 500.00 | 6.30 | 0.20  | 630.00  |         |            |
|    | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | 1  | 78.00  | 5.00 | 0.20  | 78.00   |         |            |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |    |        |      |       | 708.00  | 1438.56 | 1018500.00 |
|    | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1332.00 |    |        |      |       |         |         |            |
|    | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 106.56  |    |        |      |       |         |         |            |
|    | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1438.56 |    |        |      |       |         |         |            |
| 10 | KSRRB 500-4: providing and applying <b>primer coat</b> from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Do- Medium Porosity MORTH chapter 5, No. 175/ Item No. 21.4/ PWD SR 2014-15                                                                                                                            | Sqm     |    |        |      |       |         |         |            |
|    | Chokkanahalli Layout main Raod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | 1  | 500.00 | 6.30 |       | 3150.00 |         |            |
|    | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | 1  | 78.00  | 5.00 |       | 390.00  |         |            |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |    |        |      |       | 3540.00 | 31.32   | 110873.00  |
|    | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 29.00   |    |        |      |       |         |         |            |
|    | Area Weightage @ 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.32    |    |        |      |       |         |         |            |
|    | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 31.32   |    |        |      |       |         |         |            |
| 11 | KSRRB M500-18: Providing and laying <b>semi dense bituminous concrete 25mm thick</b> with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 174/ Item No. 21.20/ PWD SR 2014-15 | Cum     |    |        |      |       |         |         |            |
|    | Chokkanahalli Layout main Raod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | 1  | 500.00 | 6.30 | 0.025 | 78.75   |         |            |
|    | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | 1  | 78.00  | 5.00 | 0.025 | 9.75    |         |            |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |    |        |      |       | 88.50   | 8475.84 | 750112.00  |

|    | Description of item                                                                                                                                   | Unit    | No                   | L | B | D | Qty         | Rate  | Amount     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|---|---|---|-------------|-------|------------|
|    | Basic Rate                                                                                                                                            | 7848.00 |                      |   |   |   |             |       |            |
|    | Area Weightage @ 8%                                                                                                                                   | 627.84  |                      |   |   |   |             |       |            |
|    | Total                                                                                                                                                 | 8475.84 |                      |   |   |   |             |       |            |
| 12 | Lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading and unloading. From 0.00 to 2.00 Km ( Page No.123, | Cum     |                      |   |   |   |             |       |            |
|    |                                                                                                                                                       |         | Qty. Vide Item No. 1 |   |   |   | 274.96      |       |            |
|    |                                                                                                                                                       |         |                      |   |   |   | 274.96      | 68.12 | 18730.00   |
|    | Basic Rate Lead Charges Upto 2.00 Kms                                                                                                                 | 5.12    |                      |   |   |   |             |       |            |
|    | PWD SR 2014-15 (P.130/I.17.1) For loading and unloading                                                                                               | 63.00   |                      |   |   |   |             |       |            |
|    | Total                                                                                                                                                 | 68.12   |                      |   |   |   |             |       |            |
|    |                                                                                                                                                       |         |                      |   |   |   | Grand Total |       | 2968685.00 |
| 13 | For 1% Third Party Charges                                                                                                                            |         |                      |   |   |   |             |       | 29687.00   |
| 14 | Miscellaneous Charges                                                                                                                                 | L/S     |                      |   |   |   |             |       | 1628.00    |
|    |                                                                                                                                                       |         |                      |   |   |   |             | Total | 3000000.00 |

Rupees Thirty Lakh(s) Only

#### CERTIFICATE

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2014-15
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.

Assistant Engineer  
ಸಹಾಯಕ ಅಭಿಯಂತರರು  
ಬಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer  
Byatarayanapura Division  
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer

#### Administrative Approval

Accorded For 30.00 lakh Rs  
Head of A/C P 3089  
CER NO : 23 Dt: 19.08.15

TA

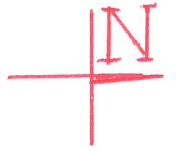
CE (YNK)

#### Technical Sanction

Accorded For 30.00 lakh Rs  
Head of A/C P 3089  
CER NO : 17 Dt: 21.08.15

TA

CE (YNK)



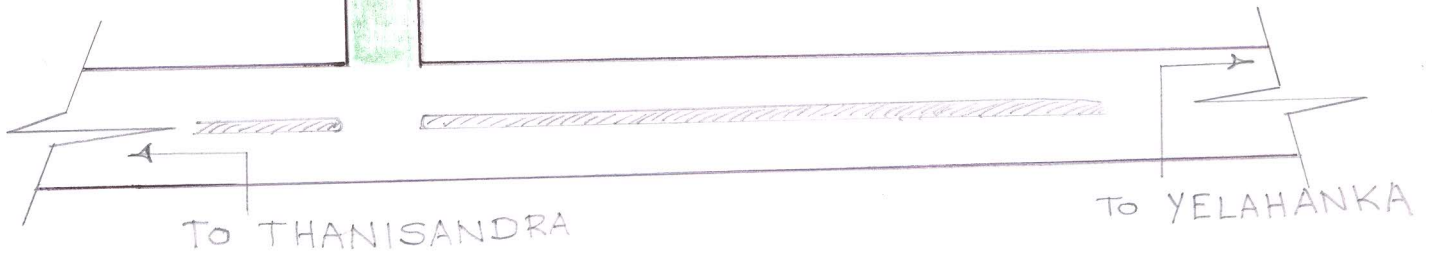
VENKATARAMA REDDY'S  
HOUSE



CHOKKANA HALL  
LAYOUT



PROPOSED ASPHALT S.D.B.C



ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ  
ಬೃಹತ್ತರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer  
B. B. M. P. Sub Division  
B.B.M.P. Bangalore